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Suppl. DISINCENTIVES TO AGRICULTURAL PRODUCTION IN DEVELOPING COUNTRIES: A POLICY SURVEY

Bv

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World grain production shortfalls caused by unfavorable weather, and depleted purchasing power caused by rising costs of imported oil have renewed public concern about the ability of less developed countries¹ (LDC's) to feed their people adequately. Some economists feel that the tight food supply-demand situation is likely to continue in the future. They argue that over the long run, even if weather condition improve, increases in the population growth rate overshadow expected gains in productivity, given the current state of technology and institutional constraints facing producers in these countries.

To what extent are food-short nations aggravating their problem by government policies and programs that act as disincentives to agricultural production? To help answer this question the U.S. Department of Agriculture recently surveyed more than 50 countries for the purpose of identifying the type and degree of existing disincentives. These are not confined to LDC's, but are much more critical to their levels of food supply than are disincentives in developed countries. This paper describes the disincentives, but does not attempt to quantify the specific impacts of such policies on aericultural production.

Forty-six of the countries surveyed have policies that directly or indirectly discourage domestic production. Disincentives revealed by the survey include:

- 1. Controlling the selling price of the producers.
- 2. Controlling the retail price to the consumer.
- 3. Noncompetitive buying (procurement policy).
- 4. Export controls.
- 5. Export taxes.
- 6. Importing for sale at subsidized prices.
- 7. Exchange rate controls.
- Restrictions on credit, land tenure, and farm size.
 Restrictions on domestic movement of agricultural products, as from one district to another.

The impact of these policies on agricultural production is discussed below and a summary of the commodities affected by these policies within selected countries is given in an attached table.

It is commonly assumed that the objective of production is to maximize the producer's profit within the constraints of his technology, resource endowments, and final product demands. The consumer, in turn. demands products because they directly or indirectly satisfy some need or want.² In an exchange economy where the forces of supply and demand are free to interact, both sellers and buyers benefit from specialization in production and exchange. Whether in a barter economy or a highly advanced monetary economy, the free interaction of sellers and buyers results in a set of

equilibrium prices, quantities, and trade flows. Given a crop failure, limited storage stocks, and a production time lag of several months, the burden of short-run adjustment falls upon market price and consumption. In other words, the interaction of supply and demand forces the price upward until it reaches a level that clears the market. The freely functioning price mechanism allocates the available supply among consumers according to ability to pay.

The impact of imposing price controls on agricultural production depends upon the extent to which the imposed price ceiling deviates from the equilibrium price level, other things being equal. Controls placed on prices below the equilibrium level discourage producers from planning future expansion and may drive marginal producers out of business. Price controls also discourage farmers from using more productive inputs such as improved seeds, fertilizers, irrigation, insecticides, and pesticides that are needed to increase production.

For example, Government controls on producer prices in Zaire has had detrimental effects on palm oil production. Palm oil production has been declining since 1968, in reaction to low administered prices. The 1974 output of 165.000 metric tons was 38.000 metric tons

¹The term LDC is used loosely here. Some economists prefer the term "developing countries." As far as this report is concerned, the two terms are equivalent.

² "Products" are defined to include goods and services.

below that of 1968. Producers are very reluctant to invest in the expansion of their groves, since they know that 50 percent of the total output must be sold in the domestic market at an unprofitable price (at a loss).

Not too long ago, Greece's price ceilings on beef

resulted in shortages and black markets.

In many cases the objective of price controls is to have a more equitable food distribution, given inadequate domestic supplies. Although improvement in food distribution is desirable and necessary for many countries, price control does not necessarily mean that on a per capita basis the countries will enjoy an improved level of consumption.

With the lack of foreign exchange reserves to import food, developing countries can meet the increasing demand for food only by stimulating domestic production. One way to accomplish this objective is to free production from the artificial constraints, such as price controls, that discourage farmers from making additional investments to increase production. Higher price signals transmitted from the market will raise producer expectations about the supplies that can be absorbed by the market at prices that he believes will bring a reasonable profit. The pursuit of profit helps assure adequate supply levels.

Some countries use price controls as a means of fighting inflation. But what is really needed is more production, not less. Given a stable demand, an increase

in the supply would bring a decline in price.

Certain procurement policies and forms of noncompetitive buying are constraints that also lead to lower production. In many LDC's, the government is the sole buyer of the product. This has adverse effects on

sole buyer of the product. This has adverse effects on both producers and consumers. Governments use such practices to secure consumer supplies and as a source of revenue. While the producer is deprived of a higher, competitive price, the consumer ends up paying more for a smaller output, which results in a social welfare loss. In Thailand, for example, rice producers receive about one-fifth the world price for rice. It is estimated, based on long-run supply elasticity estimates, that Thailand can increase its annual rice output by 1 million metric tons by increasing the relative farm price of rice by 50 percent. This is quite substantial since Thailand's total rice exports in 1973 amounted to 0.9 million metric tons. However, one should not argue for procurement prices above the world price level since such a policy would in the long run lead to unnecessary surpluses and export subsidies.

Export controls and export taxes, in addition to being barriers to free trade, can result in the loss of potential export markets. Where substitute products or alternative supplies exist, the loss in exports is the

investments to increase production. Higher price signals transmitted from the market will raise producer expectations about the supplies that can be absorbed by the market at prices that he believes will bring a reasonable profit. The pursuit of profit helps assure adequate supply levels.

Some countries use price controls as a means of

prices.³ Such policy creates uncertainty to producers and complicates the process of resource allocation.

Brazil is another example where exchange rate manipulation has been a popular policy. In the early 1950's

greatest. An export tax increases the price of the

exported commodity, thus reducing the quantity bought

by foreign buyers. This, in turn, leads to a loss of foreign

exchange needed to finance imports. In addition, re-

duced foreign demand influences producers' expecta-

tions about the future demand, and they grow less than

finance imports of necessary commodities and equip-

ment, many countries put higher priorities on exports.

For example, Argentina has long maintained a stable

beef export market through taxes and exchange rate

manipulation. As domestic beef prices go up, exports,

which are more price elastic than domestic demand, start

declining. This induces the Government to devalue

explicitly or implicitly (reduce export duties or increase

subsidies) to maintain the level of exports. The quantity

adjustment is thus forced upon domestic consumption.

Since domestic demand is rather price inelastic, the price

In order to maintain the flow of foreign exchange to

they would otherwise.

the Government overvalued its currency, believing that an inelastic foreign demand for Brazilian coffee would bring more revenue to the country. This policy had an adverse effect, however, on the exports of other products in which Brazil had a comparative advantage in the world market. By 1953, the Government had apparently recognized this problem and since then it has been following a system of multiple exchange rates. A The system of multiple exchange rates, as in the case of other

forms of exchange rate manipulation, could introduce a

tremendous amount of uncertainty that complicates

farmers' decisions regarding new investment or resource

In an effort to control inflation and in order to provide the consumers with adequate supply of basic food commodities, some governments resort to import subsidization. This policy, which results in a lower price in the domestic market, discourages producers within the country from expanding. Improved seed varieties around which the green revolution was built require intensive use of fertilizers, irrigation, and pesticides. Unless domestic prices are high enough to compensate for the investment in such costly inputs, producers have

³Gustavo A. Nores: "Quarterly Structure of the Argentine Beef Cattle Economy: A Short-Run Model 1960-1970." Unpublished Ph.D. Thesis, Purdue University, June 1972, Chapter I.

⁴Ralph G. Lattimore: "An Econometric Model of the Brazilian Beef Sector". Unpublished Ph.D. Thesis, Purdue University, August 1974. Chapter I.

no incentive to expand their production.

The effects of import subsidies are not confined to the production of grains but also extend to other agricultural commodities. For example, the subsidization of meat imports in Spain has depressed domestic livestock production. An alternative to the policy of import subsidization is to encourage domestic producers to expand their production by offering higher product prices that compensate for the added cost of using manufactured inputs needed for intensive production.

Restrictions imposed on farm size, land tenure, and credit to farmers constitute serious barriers to the expansion of agricultural production in many LDC's. Despite the improvement in land distribution brought about by land reform, many LDC's have experienced lower output. While land is an important factor of production, other factors must be combined with land to maintain or increase the level of production. At the early stages of adjustment in the agricultural sector, following land reform, the new owners are usually farm workers with limited experience in farm management and most likely have little or no capital to cover the variable costs of production. Poor management and lack of capital result in an inefficient allocation of resources that may lead to a decline in output until these deficiencies are corrected.

Restrictions on land tenure that limit farm size discourage farmers from investing in highly productive inputs and cause a loss of size economies. In the Dominican Republic, the land tenure law that limits riceland to 80 acres has been one reason that the country has needed to import rice over the past several years. The effect of this policy has been further amplified by price controls where the farmer receives a low price for his rice.

Eliminating its policy of requiring cooperative farming organizations in 1969, Tunisia proved that private enterprise is more efficient in allocation of resources. Tunisia's index of per capita agricultural production increased from 76 in 1969 to 117 in 1973 (1961-65 = 100).

Rural credit policies that restrict credit to small farmers have limited the expansion of agricultural production in many LDC's. For example, the Government of Indonesia (GOI), in order to compensate rice producers for low rice prices, offers them subsidized credit. However, since the small farmers are viewed as

high risk borrowers by the banking system, only the larger farmers benefit from subsidized financing that facilitates the adoption of new production techniques. Therefore, it is only the larger farmers who have the negative impact of low prices partially neutralized through GOI subsidized credit programs. This results in an inefficient resource allocation for a large number of small farmers who need liquidity to improve their level of production.

Restrictions on movement of agricultural products from surplus districts to deficit districts within a country discourage farmers in the surplus areas from producing more. Perhaps the existence of such restrictions in India amplified the impact of food shortages following the last summer's drought and floods, where some States such as West Bengal were hit harder than others. Another example is Indonesia where interisland shipments of rice are prohibited except under Government auspices.

Policies that tend to restrict agricultural production are not unique to developing countries. As recently as 1973, the U.S. Government payment for feedgrain set-aside acreage totaled \$1.17 billion, and 9.4 million acres of land were withheld from production.6 Over the past two decades. U.S. agriculture has been the subject of various supply management programs. Supply management has generally had as its objective supply reduction rather than supply expansion. Current programs that act as restrictions on production in the United States are marketing quotas and acreage allotments for extra-long-staple cotton, peanuts, rice, and most types of tobacco. Also, recent environmental legislation calls attention to social trade-offs between what is conceived of as being socially desirable environment and higher production.

The discussion of the effects of disincentive policies on agricultural production in different countries included in this survey does not explicitly deal with interdependencies among the commodities. It is recognized that a disincentive for one commodity may prove to be an incentive for another. While it is beyond the scope of this analysis to present a quantitative evaluation of the net effect of various policies in different countries, a general indication of each country's need to expand its agricultural output can be grasped by examining Table 1. For most of the countries included in this study and based on a long trend (1952-1972), the rate of growth in domestic demand for food exceeds that for food production.

⁵The Agricultural Situation in Africa and West Asia, ERS-Foreign 363, USDA, Washington, D.C. June 1974.

⁶Commodity Fact Sheet, April 1974, ASCS, USDA

Table 1.-Population, Food Supply and Domestic Demand for Food in Selected Countries: Rate of Growth as Percent Per Year

		Growth Rate	1/	::	:		Growth Rate	1/
		:	:Domestic	-::	:		:	:Domestic
		: Food	:Demand	::	:		: Food	:Demand
Country	Populat:	ion:Productio	n:for Food	::	Country :	Populati	on:Productio	n:for Food
				::	:			
exico	3.4	5.3	4.3	::	Tunisia:	2.9	0.8	4.3
ominican Republic.	3.3	2.2	3.6	::	Nigeria:	2.4	2.0	3.1
osta Rica	3.8	5.4	4.8	::	Senegal:	2.2	3.3	1.2
uatemala	3.0	4.1	4.2	::	Sierra Leone:	2.0	2.4	3.9
onduras	3.3	4.0	4.2	::	Zaire:	2.0	0.2	2.3
icaragua	3.0	4.9	3.9	::	:			
anama	3.2	4.3	4.8	::	Bangladesh:	3.5	1.6	
l Salvador	3.0	3.6	4.1	::	Sri Lanka:	2.5	3.6	3.1
				::	India:	2.1	2.4	3.0
rgentina	1.7	1.8	2.0	::	Pakistan:	3.0	3.0	4.2
olivia	2.3	5.0	2.7	::	Burma:	2.2	2.4	3.3
razil	3.0	4.4	4.0	::	Indonesia:	2.5	2.0	2.6
hile	2.5	2.2	3.3	::	Malaysia (West.):	3.0	5.2	4.3
olombia	3.3	3.1	3.9	::	Philippines:	3.2	3.2	4.2
cuador	3.3	5.4	4.0	::	Thailand:	3.1	5.3	4.6
araguay		2.6	3.4	::				
eru		2.9	3.9	::	Egypt:	2.6	3.4	3.8
ruguay		.8	1.2	::	Greece:	0.8	4.0	2.3
enezuela:		6.1	4.0	::	Iran:	2.8	3.3	6.4
				::	Jordan:		1.8	6.6
ngola	1.8	2.7	3.0		Syria:	3.0	1.8	4.6
hana		3.9	3.2	::	Turkev:	2.7	3.0	3.8
vory Coast		4.9	2.6	::	Spain:		3.4	3.0
enya		2.6	4.6	::		,		
iberia		1.1	1.8	::				
orocco		2.8	3.3		United States:	1.5	2.0	1.6

1/ Growth rates are based on an exponential trend 1952-72.

Source: Monthly Bul. of Ag. Econ. & Stat. 9 Vol. 23, Sept. 1974. FAO, Rome.

APPENDIX -DISINCENTIVES TO AGRICULTURAL PRODUCTION BY COMMODITY AND COUNTRY

				Disincentiv	es to agri	cultural pr	oduction			Remarks
Country and commodity	Controls on producer prices	Controls on consumer prices	Non- competi- tive buying	Export control	Export taxes	Import subsidies	Exchange rate controls	Restric- tions on credit & land tenure	Restric- tions on movement of agri. products	
MEXICO										
Sugar	х	х		X						
Livestock				X	X			X	X	
Other foodstuffs		x		X	X				X	
DOMINICAN										
REPUBLIC										
Rice	X	X		X		X		X	X	
Beef	X	X		X	X					
Sugar		X			X					
Corn	Х	X		X						
Dairy	X	X								
TRINIDAD &										
TOBAGO										
Broilers	X	X								
Rice		X	X							
COSTA RICA										
Ricc	X	X	X		X		X			
Beans	X	X	X		X	X	X			
Beef	X	X		X	X		X			
Sugar	X	Χ,	X		X		X			
Dairy	X	X								
Bananas					X		X			
Coffee	X	X	X		X		Х			
Corn	X	X								
GUATEMALA										
Meat		X								
Sugar		X								
Cotton	X									
Milk	х	Х								
BELIZE										
Sugar	Х	X			X			X		Disincentives are
Beef	X	X						X	X	substantial. Price
Most foodstuffs	Х	. X						Х		controls created shortages.
HONDURAS										
Bananas					х					
Sugar	х	х	x		^					
Sugar Milk	X	x	^							
Cattle	^	^						Х		
Cattle										

X denotes the existence of disincentives for the listed commodity or group of commodities.

APPENDIX DISINCENTIVES TO AGRICULTURAL PRODUCTION BY COMMODITY AND COUNTRY-Continued

			Disi	ncentives	to agricult	ural produ	iction			
Country and commodity	Controls on producer prices	Controls on consumer prices	Non- competi- tive buying	Export control	Export taxes	Import subsidies	Exchange rate controls	Restric- tions on credit & land tenure	Restric- tions on movement of agri. products	Remarks
NICARAGUA										
Milk		X								
Cotton, Coffee,										
Tobacco					X			X		
Bananas, Rice,										
Sugar					X					
Hides, Cattle,										
Beef					X					
PANAMA										
Beef	X	X		X						
Other consumer										
items	X	X	X			X				
EL SALVADOR										
Meat				X						
Milk	X	X								
Grains	X	X		X						
Sugar			X							
Other foodstuffs	X	X	X							
ARGENTINA										
Beef	Х	Х			X		X			Multitiered ex-
Major grains	X	X		Х	X		X			change rate.
Sunflower seeds	X		X							
Oilseed products				X	X		X			Export of oilseeds
Other commodi-										is prohibited.
ties							X			All agri. commodi
Wool							Х			ties are subject to exchange rate control.
BOLIVIA										
Cotton					х					
Many food										

products

X X

Х

Х

APPENDIX DISINCENTIVES TO AGRICULTURAL PRODUCTION BY COMMODITY AND COUNTRY-Continued

			Disi	ncentives	to agricul	tural produ	iction			
Country and commodity	Controls on producer prices	Controls on consumer prices	Non- competi- tive buying	Export control	Export taxes	Import subsidies	Exchange rate controls	Restric- tions on credit & land tenure	Restric- tions on movement of agri. products	Remarks
BRAZIL										
Beef	X	Х		X						Restricted slaughte off-season.
Milk	X	X		х						
Soybean oil Peanuts (excl.				Х						Export prohibited.
HPS)				х						Export prohibited.
HPS peanuts				x						Export promotica.
Peanut oil				x						
Cotton				*						MEP - world price.
Frozen orange										MEP above world
juice concen-										price.
trate				*						Taxes are used to
Sugar				х	*					promote produc-
Cocoa				^	*					tion and marketing
THILE										
Wheat & wheat										
products ·	X	X	X	X		х	X	X		No farms over 80
Sugarbeets	X	X	X	X		X	X	X		irrigated acres or
Vegetable oil		X	X	X			X	X		equivalent.
Beef							X	X		equiralent.
Milk & milk										
products	X	X					X	X		
Rice	x	X					X	X		
COLOMBIA										
Sugar		X		X						All imports/exports
Corn & foodgrain:	;	X	X	X		X	X	X		have to be licensed.
Soybeans		X	X	X		X	X			
Coffee	X		X	X	X		X			
Wheat		X				X	X			
Cotton Palm oil		x	х	X X		Х	X X	х		
ECUADOR										
Coffee, cocoa					X					
Sugar				X	X					
Bananas					X					
Most basic foods		X								
Milk	X									
PARAGUAY										
Beef	X	X		X						
Soybeans	X				X					
Wheat	X									
Sugarcane	X									

^{*}Not a disincentive at the present time.

APPENDIX -DISINCENTIVES TO AGRICULTURAL PRODUCTION BY COMMODITY AND COUNTRY-Continued

		Disincentives to agricultural production											
Country and commodity	Controls on producer prices	Controls on consumer prices	Non- competi- tive buying	Export control	Export taxes	Import subsidies	Exchange rate controls	Restric- tions on credit & land tenure	Restric- tions on movement of agri, products	Remarks			
PERU													
Livestock					X			X		Agrarian reform			
Cotton, wool				X	X			X		had its effect on			
Coffee, potatoes,										Peru's agriculture.			
beans	X	X	X							Restriction on			
										movement of agri-			
Wheat, rice	X	X	X	X		X				cultural products			
Contract to be seen	v	х	х	х						applies to many			
Sugar, tobacco	X	Α.	A	X						commodities.			
Oilseeds & feed-										Indirect subsidies			
grains	X	x	X			х				for wheat only.			
Meat, milk	X	x	X			^				Non-competitive			
Fish meal & oil		^•	X	X						buying applies to			
Dairy prod. &										tobacco only.			
veg. oils						X							
URUGUAY													
Livestock	X				X		X		X				
Wool	X X				X X		X X						
Grains Oilseeds	X				X		X						
Milk	X	х			^		^						
Sugarcane &	. ^	^											
beets	X												
Wheat			X										
VENEZUELA													
Sugar		X		*						Controls on con-			
Tobacco		X								sumer prices are			
Rice		X		*						offset by minimum			
Feedgrains		X				•				producer prices.			
										On the average, agricultural pro-			
										duction is not			
										affected by such			
										policies.			
ANGOLA													
Coffee					X								
GHANA													
Cocoa	X		X					x					
Seed cotton	X		X					X					
Saca cotton	^		^										
IVORY COAST													
Coffee	X		X										
Cocoa	X		X										

^{*}Not a disincentive at the present time.

APPENDIX -DISINCENTIVES TO AGRICULTURAL PRODUCTION BY COMMODITY AND COUNTRY-Continued

			Dis	incentives	to agricul	tural prod	uction			
Country and commodity	Controls on producer prices	Controls on consumer prices	Non- competi- tive buying	Export	Export taxes	Import subsidies	Exchange rate controls	Restric- tions on credit & land tenure	Restric- tions on movement of agri, products	Remarks
KENYA										
Wheat	х	х								
Corn	x	X								Large scale farmin
Sugar	x	·X								is discouraged.
Rice	X	X								is discouraged.
Ricc	^	^								
LIBERIA										
Many commodi-										
ties	X	X	X							
MOROCCO										
Oranges					X					Expropriated land
Wheat products		X				X				from foreign
Other staple	.,	.,								owners.
foods	X	Х						X		
NIGERIA										
Cocoa	*		х					X		Farmers' price for
Cocoa			,,					^*		cocoa is highest in
Secd cotton	X		X					Х		West Africa.
SENEGAL										
Peanuts	X		X							
SIERRA LEONE										
Some commodi-										
ties	Х		X							
ZAIRE										
Palm oil	х	х								
Coffce	X	x	х		х					Two-tier exchang
Tobacco	X	x	x		X					rate.
Corn	X		X		~					
BANGLADESH										
Wheat				X		X				Effect of import
Rice				X		X				subsidics is margi-
Edible oils				X						nal at present
										prices.
SRI LANKA										
Rice						х				
Rice						X				

^{*}Not a disincentive at the present time.

APPENDIX -DISINCENTIVES TO AGRICULTURAL PRODUCTION BY COMMODITY AND COUNTRY-Continued

			Dis	incentives	to agricul	tural prod	uction			
Country and commodity	Controls on producer prices	Controls on consumer prices	Non- competi- tive buying	Export	Export taxes	Import subsidies	Exchange rate controls	Restric- tions on credit & land tenure	Restric- tions on movement of agri. products	Remarks
INDIA										
Jute				X	X		X			
Cereals				X			X	X		
Rice	X	X		X			X	X	X	
Wheat	X	X		X			X	X	X	
Cotton				X			Х			
PAKISTAN										
Wheat, flour	X	X		X		X		X	X	Wheat is heavily
Vegetalbe oil	X			X		X		X		subsidized. Wheat
Seed cotton				X					X	and veg. oil ex-
Rice			X					X	X	ports are banned.
Raw cotton					X					Interdistrict & interprovincial re- strictions on move ment of agri. pro- ducts are imposed from time to time, particularly after harvest.
BURMA										
Rice	X		Х	х						
INDONESIA										
Rice	X	X	X			X		X	X	
Sugar								X		
MALAYSIA										
Palm oil					X					
Rice	X	X								
PHILIPPINES										
Sugar	х	X	х	х	х					
Ricc	X	X	Λ.	X	^	х				
Desiccated				′•		,,				
coconuts					X					
Copra				X	X					
Coconut oil		X			X					
THAILAND										
Rice		X	X	X	X					
Sugar		X		X	X					
FOURT										
EGYPT	v		х					v	v	
Cotton Rice	X X		X					X X	X X	
NICC	^		^					^	^	

APPENDIX DISINCENTIVES TO AGRICULTURAL PRODUCTION BY COMMODITY AND COUNTRY-Continued

			Disi	ncentives	to agricul	tural produ	uction		-	
Country and commodity	Controls on producer prices	Controls on consumer prices	Non- competi- tive buying	Export control	Export taxes	Import subsidies	Exchange rate controls	Restric- tions on credit & land tenure	Restric- tions on movement of agri. products	Remarks
GREECE										
Cottonseed cake	х			х						
Cottonseed oil	x	х		x						
Cheese	^	Λ		X						0 1 2
Wheat, bread		х		X		х				Soybean oil com-
		^		Α.		λ				petes with olive
Feedgrains,										oil. Sugar prices
meat, eggs				X						arc usually fixed
Milk	X	X								above the world
Corn, soybean										price level but now
oil						X				they are lower.
Olive oil	X	X		X						
Sugar	Х	X	X	X		Х		X		
RAN										
Wheat		X				X		X		
Rice		X				X				
Oilsceds & vcg.										
oil		X				Х				
Livestock, meat										
& milk		X				x		х		
ORDAN										
Wheat flour		X				x				
YRIA										
Seed cotton	X		X	Х				х		
Wheat and barley	x		x	,,				^	X	
URKEY										
Whcat	Х	X		х		Х		Х	х	
Cotton						.,		^	^	Overall policy is
Tobacco										ineffecient.
Livestock	х	x		х				x	x	merrecient.
PAIN										
Dairy	Х	X				х				
		X		х	х	^				
Olive oil										
Olive oil Meat and poultry	X X	X		^	^	х				



